

F15 FLUID-PRESSURE ACTUATORS; HYDRAULICS OR PNEUMATICS IN GENERAL

F15C FLUID-CIRCUIT ELEMENTS PREDOMINANTLY USED FOR COMPUTING OR CONTROL PURPOSES (transducers F15B 5/00; fluid dynamics in general F15D; computers comprising fluid elements G06D, G06G)

Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to “micro-structural devices” and “micro-structural systems”. [7]

- 1/00 Circuit elements having no moving parts**
 1/02 . Details
 1/04 . . Means for controlling fluid streams to fluid devices, e.g. by electric signals
 1/06 . . Constructional details; Selection of specified materials

Group F15C 1/22 takes precedence over groups F15C 1/08 F15C 1/20. [2]

- 1/08 . Boundary-layer devices, e.g. wall-attachment amplifiers [2]
 1/10 . . for digital operation, e.g. to form a logical flip-flop, OR-gate, NOR-gate
 1/12 . . . Multiple arrangements thereof for performing operations of the same kind, e.g. majority gates, identity gates
 1/14 . Stream-interaction devices; Momentum-exchange devices, e.g. operating by exchange between two orthogonal fluid jets
 1/16 . Vortex devices, i.e. devices in which use is made of the pressure drop associated with vortex motion in a fluid
 1/18 . Turbulence devices, i.e. devices in which a controlling stream will cause a laminar flow to become turbulent

- 1/20 . Direct-impact devices, i.e. devices in which two collinear opposing power streams are impacted
 1/22 . Oscillators [2]

3/00 Circuit elements having moving parts (valves, construction of valves F16K)

Group F15C 3/16 takes precedence over groups F15C 3/02 F15C 3/10. [2]

- 3/02 . using spool valves
 3/04 . using diaphragms (connection of valves to inflatable elastic bodies B60C 29/00)
 3/06 . using balls
 3/08 . using reeds
 3/10 . using nozzles or jet pipes
 3/12 . . the nozzle or jet pipe being movable
 3/14 . . the jet from the nozzle being intercepted by a flap
 3/16 . Oscillators [2]

4/00 Circuit elements characterised by their special functions

5/00 Manufacture of fluid-circuit elements; Manufacture of assemblages of such elements

7/00 Hybrid elements, i.e. circuit elements having features according to groups F15C 1/00 and F15C 3/00 [2]